

CLAIMS

1. A reversible cutter bit for use with a rotary cutter tool of the type having a chuck of a selected length, the cutter bit comprising:
5 a body having a first end and a second end;
a first cutter knife mounted on said first end and having a first cutter blade that lies in a single plane;
a second cutter knife mounted on said second end and having a second cutter blade that lies in a single plane;
10 and in which the first cutter blade is adapted to move laterally across a workpiece to impart a first profile thereto and the second cutter blade is adapted to move laterally across a workpiece and impart a second profile thereto, and in which the first and second profiles differ in cross-sectional configuration.
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2. The cutter bit as defined in Claim 1 in which each of the first and second ends of the body has at least one cutter knife flange extending away therefrom.
- 20 3. The cutter bit as defined in claim 2 in which a blade receiving recess is formed adjacent the cutter knife flange and receives the cutter blade.

4. The cutter bit as defined in Claim 2 in which the body has a constant cross section.

5 5. The cutter bit as defined in Claim 4 in which the cross section is round.

6. The cutter bit as defined in Claim 2 in which an annular boss extends outwardly from the body at a position intermediate the cutter knives.

10 7. The cutter bit as defined in Claim 6 in which the boss is integrally formed with the body.

15 8. The cutter bit as defined in Claim 7 in which the boss includes a lower annular flange and an upper annular flange spaced from the lower annular flange.

20 9. The cutter bit as defined in Claim 8 in which the distance from each cutter bit to the boss has a length, and in which the length is adapted to be less than the chuck length.

10. The cutter bit as defined in Claim 9 in which the boss is adapted to be positioned adjacent the chuck when in use.

5 11. The cutter bit as defined in Claim 2 in which the first and second cutter knives have a first diameter and the body has a second diameter and in which the first diameter is smaller than the second diameter.

12. In combination, The cutter bit and a rotary cutter tool, the combination comprising:

10 a motor;
a chuck rotatably mounted on the motor, the chuck defining a hole extending through the center of the chuck, the hole having a length;

the cutter bit having a body with a first end and a second end;
a first cutter knife mounted on said first end and having a first cutter
15 blade that lies in a single plane and is adapted to cut a first profile in a workpiece when moved in a lateral direction;

a second cutter knife mounted on said second end and having a
second cutter blade that lies in a single plane and is adapted to cut a second
profile when moved across a workpiece in a lateral direction, and in which
20 the first profile differs from the second profile in cross-sectional configuration;

the body having a cross sectional configuration complimentary to the hole.

13. The combination as defined in Claim 12 in which the body has a first
5 diameter and the first and second cutter knives have a second
diameter and the second diameter is smaller than the first diameter.

14. The combination as defined in Claim 13 in which a portion of the body
and one of the first and second cutter knives is positioned within the
10 hole during motor operations.

15. The combination as defined in Claim 14 in which an annular boss
extends outwardly from the body at a position intermediate the first
and second cutter knives.

16. The combination as defined in Claim 15 in which the boss is integrally
formed with the body.

17. The combination as defined in Claim 16 in which the boss includes a
20 lower annular flange and an upper annular flange spaced from the
lower annular flange.

18. The combination as defined in Claim 15 in which the boss is positioned adjacent the body.
- 5 19. The combination as defined in Claim 15 in which the boss lies adjacent the chuck when the body is mounted within the hole.
- 10 20. The combination as defined in Claim 15 in which the distance from each of the first and second cutter knives to the boss has a length, and in which the length is less than the chuck length.
21. The combination as defined in Claim 20 in which the boss is integrally formed with the body.
- 15 22. In combination, a cutter bit and a rotary cutter tool, the combination comprising:
a motor;
a chuck rotatably mounted on the motor; the chuck defining a hole that extends through the center of the chuck, the hole having a length;

a cutter bit having a body with a first end and a second end, the body having a first diameter and having a cross sectional configuration complimentary to the hole;

5 a first cutter knife mounted on the first end of the body and having a first cutter blade that lies in a single plane;

10 a second cutter knife mounted on said second end and having a second cutter blade that lies in a single plane; and the first cutter blade is adapted to move laterally across a workpiece to impart a first profile thereto and the second cutter blade is adapted to move laterally across a workpiece and impart a second profile thereto, and the first and second profiles differ in cross-sectional configuration;

15 and wherein the first and second cutter knives each have a second diameter that is smaller than the first diameter of the body; wherein a portion of the body and one of the first and second cutter knives is positioned within the hole during motor operations;

20 the body further having an integrally formed annular boss extending outwardly from the body at a position intermediate the first and second cutter knives and the distance from each cutter knife to the boss has a length that is less than the length of the hole in the chuck; and the boss includes a lower annular flange and an upper annular flange spaced from the lower annular

flange, and a concave area extends between the upper and lower annular flanges.

23. The combination as defined in Claim 22 in which the boss is positioned adjacent the body.

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